PDPM Grouper DLL Package V1.0003
Centers for Medicare & Medicaid Services
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Introduction

This is the third revision to the initial release of the Patient-Driven Payment Model (PDPM) Grouper software. (The first revision was released within jRAVEN only. The second revision was released to the public on September 27, 2019.) Effective beginning October 1, 2019, the PDPM will be used under the Skilled Nursing Facility (SNF) Prospective Payment System (PPS) for classifying SNF patients in a covered Part A stay.

For detailed information on the PDPM logic, please visit https://www.cms.gov/Medicare/Quality-Initiatives-Patient-Assessment-Instruments/NursingHomeQualityInits/MDS30RAIManual.html and refer to Chapter 6 in the latest version of the RAI Manual.

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Description

This package contains the C++ source code as well as a compiled Windows-based DLL. The source code also contains files to support calls in the UNIX environment.

NOTE: This package is intended for vendors/developers to include in their software. For users looking for an external program that can be used to send assessments to the DLL and display the results, please go to the MDS Technical Information page and download the latest version of the jRAVEN software. With this software, assessments can be imported, then validated, along with obtaining PDPM result values.

A single method is provided for use by other programs - it is named mdsgrouper. This method supports the use of the MDS submission fixed-length string as input to the grouper.

The method declaration is as follows:

mdsgrouper (char* pdpmRecord, char* HIPPSCode, int* errorcode, char* HIPPSVersionCode)

Parameter Definitions

Parameter Name	Parameter Type	Data Type	Description
pdpmRecord	Input	String	A 3690-byte fixed-length string containing a MDS assessment in the format defined by the MDS 3.0 Data Specifications V3.00.1, which go into production on October 1, 2019.

Parameter Name	Parameter Type	Data Type	Description
HIPPSCode	Output	String	The resulting 5-character HIPPS Code returned by the method.
errorcode	Output	Integer	An integer code indicating whether an error was encountered. Currently, this parameter returns 0 if no errors were encountered in processing the assessment, and it returns 5 if errors are encountered.
HIPPSVersionCode	Output	String	The version code for the PDPM software, which is "1.0002" for this release.

Test Data

Test submission data files have been provided in the zip file "PDPM_V10003_Test_Data.zip", so that vendors may confirm that their software is generating the correct results. The correct PDPM scores for each assessment are stored in Z0100A (positions 1344-1350 of the assessment fixed-length string) and Z0100B (positions 1351-1360 of the assessment fixed-length string).

DLL Version History

Version	Comments
1.0000	This was the initial production release.
1.0001	This was a jRAVEN-only release, and not available separately. It resolved the following issues: — In the method BehavioralSymptomsStep2 the value of 0 was treated as a not assessed/not complete. As a result the staff assessment was being used to determine cognitive performance. — The ConversionFunctionTwoDigit function was not handling the "-" and "^" characters, which was resulting in the default 0 being returned. — When determining the NTA score for number of "Stage 4 Unhealed Pressure Ulcer Currently present" the value must be greater than 0. The method DetermineUnhealedPressure only checked for a value of 1.
1.0002	This is the second production release. It resolves the following issues: — The code "CheckImpairment = (ImpairIndicate1, ImpairIndicate2)" was incorrect, and should be "CheckImpairment = CheckImpair(ImpairIndicate1, ImpairIndicate2)." — There are 20 ICD codes that can score under multiple conditions for the NTA component. The PDPM code was only allowing those ICD codes to score once.
1.0003	This is the third production release. It resolves the following issues: — SLP Category: Modified logic to account for [S020XXD] in I0020B when Non-Orthopedic Surgery eligible and the patient has had a recent surgery that is a non-orthopedic Surgery. — SLP Category: Modify the logic to account for [S34111D] in I0020B when Orthopedic Survey eligible and the patient has NOT had a recent surgery. — Cognitive Level: Modify the code so that it applies logic to look for "1" in B0100 instead of looking for "01". — In the event an ICD10 code was not found in the applicable list for item I0020B, the method DeterminePrimaryDiagnosis returned an index of 0, which was incorrectly indicating the code "A000" and, therefore, the clinical category "Acute Infections" instead of being handled as a "Return to Provider." It will now return -1.

Contact Information

Please report any issues by contacting the PDPM Support team, using the following email address: PDPM@cms.hhs.gov.